

TEST REPORT

Applicant: MID OCEAN BRANDS BV

7/F, KINGS TOWER. 111 KING LAM STREET, CHEUNG SHA WAN,

KOWLOON

HK

Attn: **GARY YUEN**

Submitted sample said to be

Item Name Quantity

Yellow AGR material/ Grey AGR material

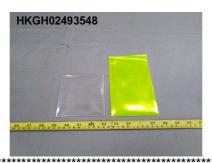
Number:

Date:

HKGH02493548

Aug 15, 2019

One bag per style



The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details:

Requirement

(1) BS EN 13356:2001

Visibility accessories for non-professional use - Test methods and requirements (Partial

See detail enclosed

For and on behalf of: Intertek Testing Services HK Ltd.

Cindy I.K. Chan Director







TEST REPORT

Number: HKGH02493548

(1) Performance Tests for Visibility Accessories for Non-Professional Use

Test Standard: BS EN 13356:2001 Visibility accessories for non-professional use - Test methods and

requirements (Partial Test)

Number of samples tested: Two (2) pieces per style; total two (2) styles.

Type of accessories: Flexible, Type 2 - Removable accessory

1) The submitted samples did not fall into the scope of the standard and the result was adopted as

2) For type 2 and 3 accessories, there is a minimum CIL value of R = 400mcd/lx in all directions around the person at $\alpha = 0.33^{\circ}$, $\beta 1 = +5^{\circ}$. However, it is not possible within the scope of this test to check that the minimum CIL value of R can be achieved in all directions around a wearer. This particular requirement is dependant on the number attached and the placement of these retroreflectors on a garment / wearer.

| Clause | Requirement | Result |
|--------|--|--------|
| 4.2 | Specific requirements for different types of accessories | |
| 4.2.2 | Photometric requirements | Р |
| 4.2.3 | Abrasion resistance (brush resistance) | Р |

Abbreviation: P = Pass





TEST REPORT

Number: HKGH02493548

Test data:

Clause 4.2.2 / Photometric test (as received)

| Observation angle, α | Entrance angle, β | | Requirement | Measured value (R') (cd/lx.m²) | |
|----------------------|----------------------|-----------|------------------------------|--------------------------------|---------------|
| | β1 | β_2 | (R') (cd/lx.m ²) | Grey sample | Yellow sample |
| 0.2° | +5° | 0° | 110 | 955.5 | 912.5 |
| | +20° | 0° | 80 | 798.5 | 746.3 |
| 0.33° | +5° | 0° | 80 | 561.5 | 523.3 |
| | +20° | 0° | 60 | 564.8 | 540.3 |
| 1.5° | +5° | 0° | 4 | 31.6 | 31.3 |
| | +20° | 0° | 3 | 28.1 | 32.4 |

Clause 4.2.3 / Photometric test after test exposure 1 (5.3 Abrasion test)

| Observation angle, α | Entrance angle, β | | Requirement | Measured value (R') (cd/lx.m ²) | |
|----------------------|----------------------|-----------|------------------------------|---|---------------|
| | β_1 | β_2 | (R') (cd/lx.m ²) | Grey sample | Yellow sample |
| 0.2° | +5° | 0° | 110 | 845.3 | 827.5 |
| | +20° | 0° | 80 | 456.5 | 670.0 |
| 0.33° | +5° | 0° | 80 | 423.0 | 398.3 |
| | +20° | 0° | 60 | 432.3 | 395.8 |
| 1.5° | +5° | 0° | 4 | 38.2 | 42.1 |
| | +20° | 0° | 3 | 41.0 | 35.7 |

Date sample received : Aug 01, 2019 Testing period : Aug 01, 2019 to Aug 13, 2019

End of report

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